

Intel® Communications ICH Value Appliance Reference Design

Product Highlights

- Features the Intel® Communications I/O Controller Hub (C-ICH), Intel's first communications-focused ICH.
- Scalable performance supporting processors from the Intel® Celeron® processor at 566 MHz to the Pentium® III processor at 1.26 GHz and beyond with processor side bus (PSB) performance of 66, 100, or 133 MHz.
- Reference board populated with a Pentium III processor, 866 MHz with 256K on-die L2 full speed cache with 133 MHz PSB
- Dual Integrated 10/100 Mbps LAN connect interfaces for cost-effective networking solutions
- Utilizes Intel Hub Architecture which allows increased I/O bus bandwidth providing better concurrency for next-generation e-Business applications
- Utilizes Intel Graphics Technology which provides a more stable platform, higher quality graphics and reduced OEM support costs
- Supports up to 512 MB SDRAM (100 or 133 MHz)
- Support for ATA100
- Supports 370-pin FC-PGA processors

Included Hardware

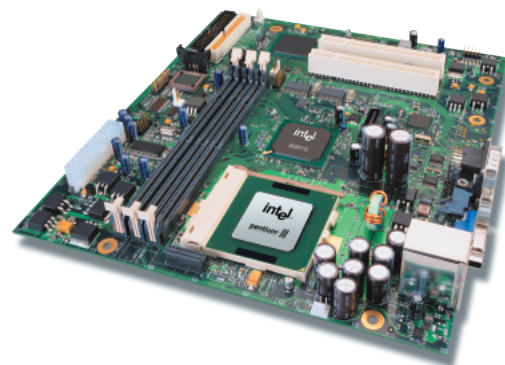
- 40 GB hard disk drive pre-loaded with a Linux® Real Time Operating System
- Thermal solution attached
- Network adaptor
- 64 MB Memory

Board Peripheral Features

- Support for up to 4 IDE ATA100 drives. Backward compatible with legacy drives
- Two USB 1.0 ports

User Accessible On-Board Connectors

- Two Serial RS-232 Ports; COM1, COM2
- ATX Power Supply Connector
- Two Standard PCI Expansion Slots
- Two USB Ports
- Three SDRAM DIMM Connectors
- Vbus Connector for Flat Panel/TV Out Support



Product Description

The Intel® Communications-ICH Value Appliance Reference Design is a physical kit consisting of a reference board, technical documentation and demonstration software for applied computing applications. The reference design board supports Pentium III and Celeron processors in the 370-pin Flip-Chip Pin Grid Array (FC-PGA and FC-PGA2) packages. The board includes a processor side bus that automatically scales from 66 MHz to 133 MHz based on the processor used. With the Proof of Concept, customers are able to develop a scalable board both in terms of processor and graphics performance. The Intel Scalable Performance Board Design Program provides developers with a wide range of price and performance options, can reduce the design and validation effort for multiple designs, can lower the total cost of ownership by reducing warehouse inventory and manufacturing costs, and provide faster time to market.

Please visit the Intel Communications-ICH Value Appliance Reference Design Web page at developer.intel.com/platforms/applied/eiacomm/reference_configs.htm

Benefits for Developers

The Intel Communications ICH Value Appliance Reference Design has significant advantages for developers:

Time-To-Market:

- It provides a comprehensive platform solution that can dramatically accelerate time-to-market. Intel works with independent hardware and software vendors to quickly enable the implementation of designs.

Economical:

- Schematics are available for download at no cost from Intel's Developer Site at:
developer.intel.com/platforms/applied/eiacomm/reference_configs.htm
- Intel's value platform delivers the best price/performance solution.

Extended Product Lifecycle:

- Embedded Intel processors and other components are designed to meet the extended lifecycle requirements of communications applications.

Scalable and Flexible:

- Intel's scalable platform allows you to use the same motherboard and populate the right Intel processor for the right performance.

- The scalability of Intel Architecture in the 370-pin socket enables developers to differentiate their products with value-added features and functionality while maintaining the level of performance that end users expect.

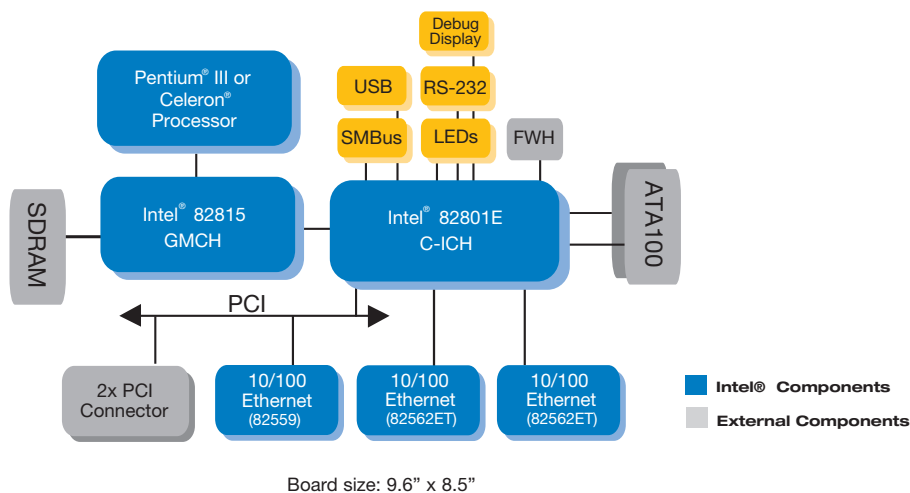
Quality:

- Intel's manufacturing capacity and quality requirements help ensure product reliability and customer satisfaction.

Broadest application support:

- The platform is based on the open Intel Architecture that is familiar to most programmers. Moreover, the architecture supports multiple operating systems, including Linux.

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Intel Access

Developer's Site	developer.intel.com
Intel Communications Appliance Reference Designs	developer.intel.com/platforms/applied/eiacomm/reference_configs.htm
Other Intel Support: Intel Literature Center	developer.intel.com/design/litcentr (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
General Information Hotline	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

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